APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	22.91
QPSK	824.7	20407	1.4	1	3	22.94
QPSK	824.7	20407	1.4	1	5	23.06
QPSK	824.7	20407	1.4	3	0	23.23
QPSK	824.7	20407	1.4	3	1	23.27
QPSK	824.7	20407	1.4	3	3	23.18
QPSK	824.7	20407	1.4	6	0	22.36
QPSK	836.5	20525	1.4	1	0	23.51
QPSK	836.5	20525	1.4	1	3	23.57
QPSK	836.5	20525	1.4	1	5	23.35
QPSK	836.5	20525	1.4	3	0	23.32
QPSK	836.5	20525	1.4	3	1	23.36
QPSK	836.5	20525	1.4	3	3	23.33
QPSK	836.5	20525	1.4	6	0	22.35
QPSK	848.3	20643	1.4	1	0	22.83
QPSK	848.3	20643	1.4	1	3	23.25
QPSK	848.3	20643	1.4	1	5	23.08
QPSK	848.3	20643	1.4	3	0	23.09
QPSK	848.3	20643	1.4	3	1	23.30
QPSK	848.3	20643	1.4	3	3	23.18
QPSK	848.3	20643	1.4	6	0	22.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	23.02
16QAM	824.7	20407	1.4	1	3	23.11
16QAM	824.7	20407	1.4	1	5	22.48
16QAM	824.7	20407	1.4	3	0	22.66
16QAM	824.7	20407	1.4	3	1	22.77
16QAM	824.7	20407	1.4	3	3	22.67
16QAM	824.7	20407	1.4	6	0	20.89
16QAM	836.5	20525	1.4	1	0	22.99
16QAM	836.5	20525	1.4	1	3	22.81
16QAM	836.5	20525	1.4	1	5	22.50
16QAM	836.5	20525	1.4	3	0	22.77
16QAM	836.5	20525	1.4	3	1	22.55
16QAM	836.5	20525	1.4	3	3	22.55
16QAM	836.5	20525	1.4	6	0	21.04
16QAM	848.3	20643	1.4	1	0	22.33
16QAM	848.3	20643	1.4	1	3	22.47
16QAM	848.3	20643	1.4	1	5	22.37
16QAM	848.3	20643	1.4	3	0	22.17
16QAM	848.3	20643	1.4	3	1	22.54
16QAM	848.3	20643	1.4	3	3	22.33
16QAM	848.3	20643	1.4	6	0	20.81

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.53
QPSK	825.5	20415	3	1	8	23.52
QPSK	825.5	20415	3	1	14	23.48
QPSK	825.5	20415	3	8	0	22.34
QPSK	825.5	20415	3	8	4	22.43
QPSK	825.5	20415	3	8	7	22.40
QPSK	825.5	20415	3	15	0	22.40
QPSK	836.5	20525	3	1	0	23.22
QPSK	836.5	20525	3	1	8	23.30
QPSK	836.5	20525	3	1	14	23.16
QPSK	836.5	20525	3	8	0	22.37
QPSK	836.5	20525	3	8	4	22.37
QPSK	836.5	20525	3	8	7	22.32
QPSK	836.5	20525	3	15	0	22.34
QPSK	847.5	20635	3	1	0	23.01
QPSK	847.5	20635	3	1	8	23.06
QPSK	847.5	20635	3	1	14	23.08
QPSK	847.5	20635	3	8	0	22.09
QPSK	847.5	20635	3	8	4	22.15
QPSK	847.5	20635	3	8	7	22.10
QPSK	847.5	20635	3	15	0	22.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.61
16QAM	825.5	20415	3	1	8	22.18
16QAM	825.5	20415	3	1	14	22.68
16QAM	825.5	20415	3	8	0	21.48
16QAM	825.5	20415	3	8	4	21.51
16QAM	825.5	20415	3	8	7	21.55
16QAM	825.5	20415	3	15	0	21.51
16QAM	836.5	20525	3	1	0	22.26
16QAM	836.5	20525	3	1	8	22.59
16QAM	836.5	20525	3	1	14	22.80
16QAM	836.5	20525	3	8	0	21.59
16QAM	836.5	20525	3	8	4	21.51
16QAM	836.5	20525	3	8	7	21.22
16QAM	836.5	20525	3	15	0	21.42
16QAM	847.5	20635	3	1	0	22.92
16QAM	847.5	20635	3	1	8	23.03
16QAM	847.5	20635	3	1	14	22.78
16QAM	847.5	20635	3	8	0	21.28
16QAM	847.5	20635	3	8	4	21.30
16QAM	847.5	20635	3	8	7	21.42
16QAM	847.5	20635	3	15	0	21.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.47
QPSK	826.5	20425	5	1	12	23.61
QPSK	826.5	20425	5	1	24	23.64
QPSK	826.5	20425	5	12	0	22.37
QPSK	826.5	20425	5	12	7	22.29
QPSK	826.5	20425	5	12	13	22.29
QPSK	826.5	20425	5	25	0	22.32
QPSK	836.5	20525	5	1	0	23.43
QPSK	836.5	20525	5	1	12	23.17
QPSK	836.5	20525	5	1	24	23.12
QPSK	836.5	20525	5	12	0	22.32
QPSK	836.5	20525	5	12	7	22.26
QPSK	836.5	20525	5	12	13	22.35
QPSK	836.5	20525	5	25	0	22.36
QPSK	846.5	20625	5	1	0	23.23
QPSK	846.5	20625	5	1	12	23.11
QPSK	846.5	20625	5	1	24	23.20
QPSK	846.5	20625	5	12	0	21.97
QPSK	846.5	20625	5	12	7	22.23
QPSK	846.5	20625	5	12	13	22.06
QPSK	846.5	20625	5	25	0	22.12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.99
16QAM	826.5	20425	5	1	12	22.53
16QAM	826.5	20425	5	1	24	22.66
16QAM	826.5	20425	5	12	0	21.45
16QAM	826.5	20425	5	12	7	21.54
16QAM	826.5	20425	5	12	13	21.53
16QAM	826.5	20425	5	25	0	21.49
16QAM	836.5	20525	5	1	0	22.93
16QAM	836.5	20525	5	1	12	22.48
16QAM	836.5	20525	5	1	24	22.75
16QAM	836.5	20525	5	12	0	21.41
16QAM	836.5	20525	5	12	7	21.42
16QAM	836.5	20525	5	12	13	21.21
16QAM	836.5	20525	5	25	0	21.32
16QAM	846.5	20625	5	1	0	22.57
16QAM	846.5	20625	5	1	12	22.63
16QAM	846.5	20625	5	1	24	22.60
16QAM	846.5	20625	5	12	0	21.32
16QAM	846.5	20625	5	12	7	21.29
16QAM	846.5	20625	5	12	13	21.21
16QAM	846.5	20625	5	25	0	21.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.43
QPSK	829	20450	10	1	25	23.52
QPSK	829	20450	10	1	49	23.57
QPSK	829	20450	10	25	0	22.38
QPSK	829	20450	10	25	12	22.19
QPSK	829	20450	10	25	25	22.34
QPSK	829	20450	10	50	0	22.25
QPSK	836.5	20525	10	1	0	23.61
QPSK	836.5	20525	10	1	25	23.52
QPSK	836.5	20525	10	1	49	23.54
QPSK	836.5	20525	10	25	0	22.34
QPSK	836.5	20525	10	25	12	22.27
QPSK	836.5	20525	10	25	25	22.16
QPSK	836.5	20525	10	50	0	22.34
QPSK	844	20600	10	1	0	23.30
QPSK	844	20600	10	1	25	23.24
QPSK	844	20600	10	1	49	23.08
QPSK	844	20600	10	25	0	22.28
QPSK	844	20600	10	25	12	22.15
QPSK	844	20600	10	25	25	22.17
QPSK	844	20600	10	50	0	22.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.51
16QAM	829	20450	10	1	25	22.59
16QAM	829	20450	10	1	49	23.12
16QAM	829	20450	10	25	0	21.54
16QAM	829	20450	10	25	12	21.78
16QAM	829	20450	10	25	25	21.84
16QAM	829	20450	10	50	0	21.33
16QAM	836.5	20525	10	1	0	22.66
16QAM	836.5	20525	10	1	25	22.77
16QAM	836.5	20525	10	1	49	22.83
16QAM	836.5	20525	10	25	0	21.36
16QAM	836.5	20525	10	25	12	21.42
16QAM	836.5	20525	10	25	25	21.50
16QAM	836.5	20525	10	50	0	21.14
16QAM	844	20600	10	1	0	22.36
16QAM	844	20600	10	1	25	22.83
16QAM	844	20600	10	1	49	22.50
16QAM	844	20600	10	25	0	21.18
16QAM	844	20600	10	25	12	21.14
16QAM	844	20600	10	25	25	21.20
16QAM	844	20600	10	50	0	21.16

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.080	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.081	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.072	Fig.3
5	QPSK	825.5	20415	3	15	0	2.678	Fig.4
5	QPSK	836.5	20525	3	15	0	2.679	Fig.5
5	QPSK	847.5	20635	3	15	0	2.684	Fig.6
5	QPSK	826.5	20425	5	25	0	4.458	Fig.7
5	QPSK	836.5	20525	5	25	0	4.455	Fig.8
5	QPSK	846.5	20625	5	25	0	4.461	Fig.9
5	QPSK	829	20450	10	50	0	8.902	Fig.10
5	QPSK	836.5	20525	10	50	0	8.910	Fig.11
5	QPSK	844	20600	10	50	0	8.913	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.076	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.072	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.073	Fig.15
5	16QAM	825.5	20415	3	15	0	2.674	Fig.16
5	16QAM	836.5	20525	3	15	0	2.683	Fig.17
5	16QAM	847.5	20635	3	15	0	2.672	Fig.18
5	16QAM	826.5	20425	5	25	0	4.440	Fig.19
5	16QAM	836.5	20525	5	25	0	4.450	Fig.20
5	16QAM	846.5	20625	5	25	0	4.452	Fig.21
5	16QAM	829	20450	10	50	0	8.906	Fig.22
5	16QAM	836.5	20525	10	50	0	8.925	Fig.23
5	16QAM	844	20600	10	50	0	8.923	Fig.24

Test Mode: QPSK

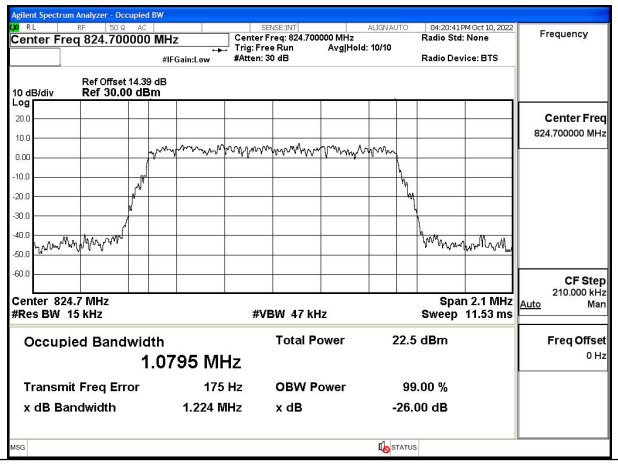

Fig.1

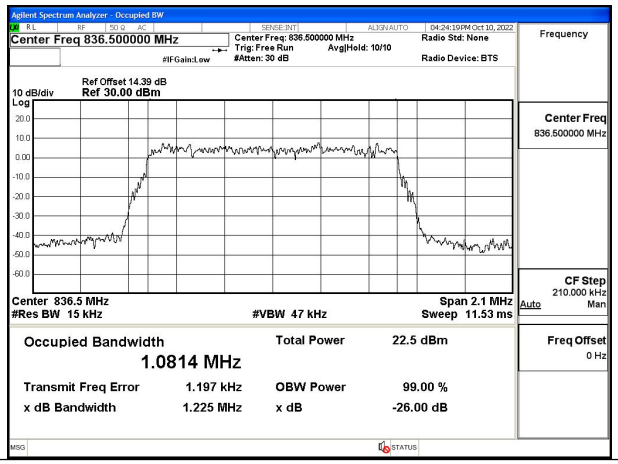

Fig.2

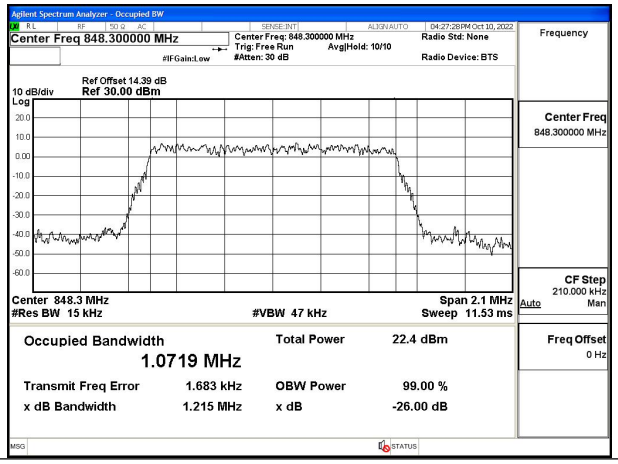

Fig.3

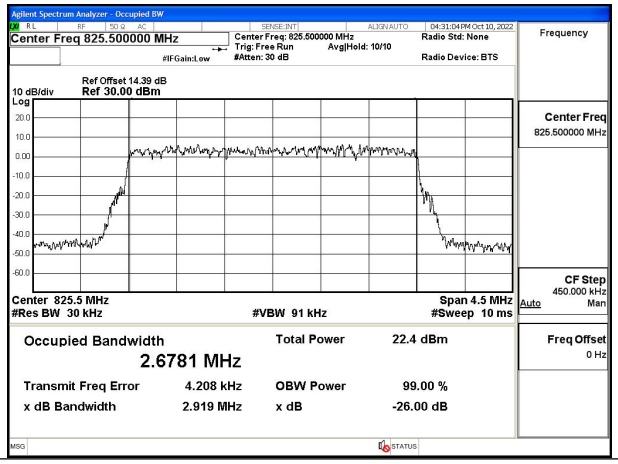

Fig.4

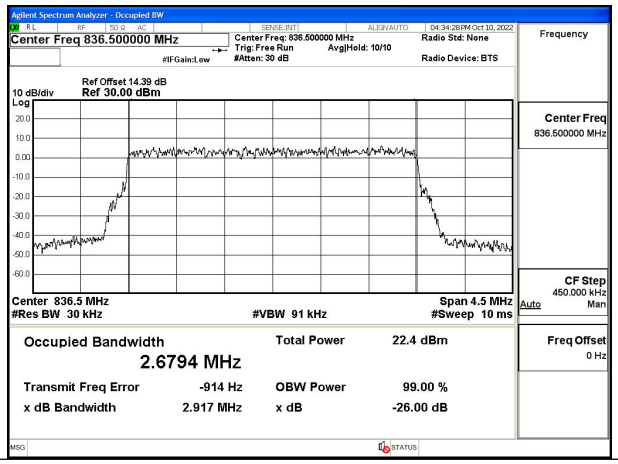

Fig.5

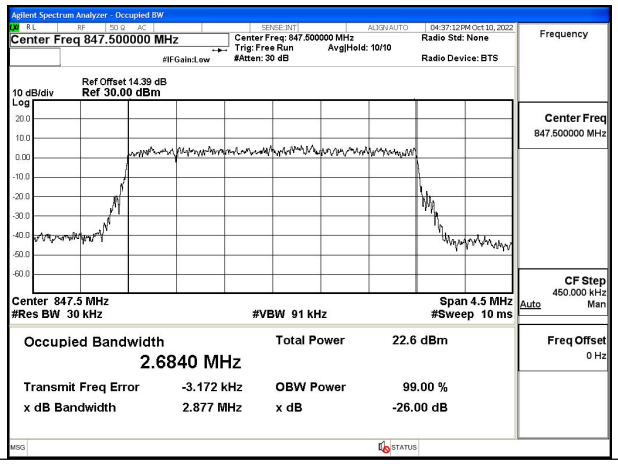

Fig.6

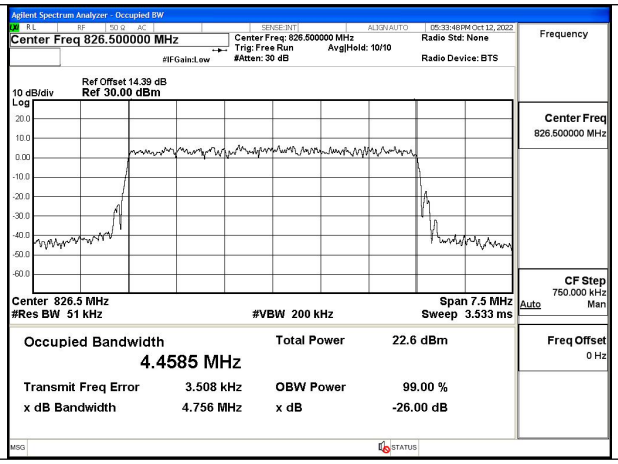

Fig.7

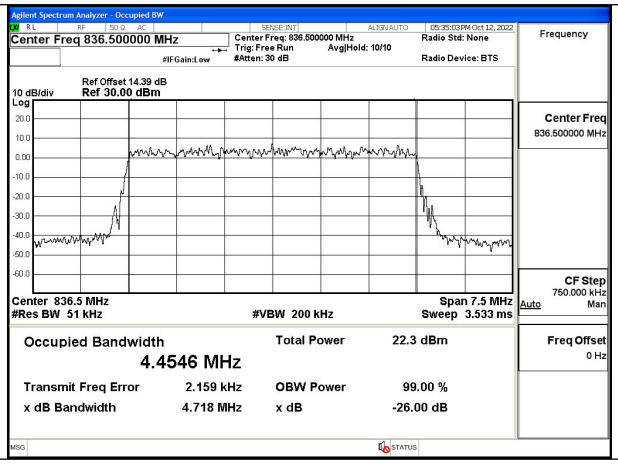

Fig.8

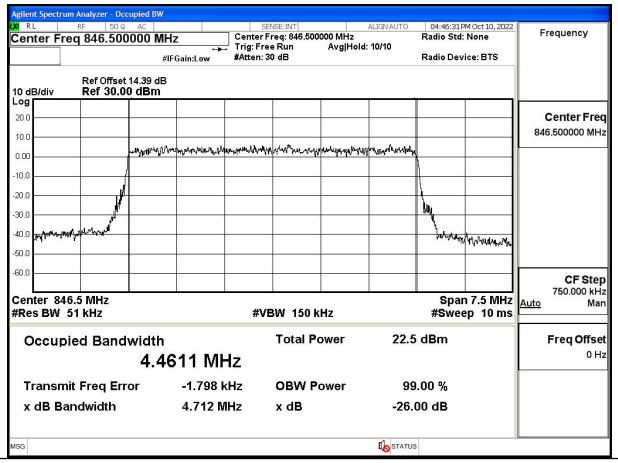

Fig.9

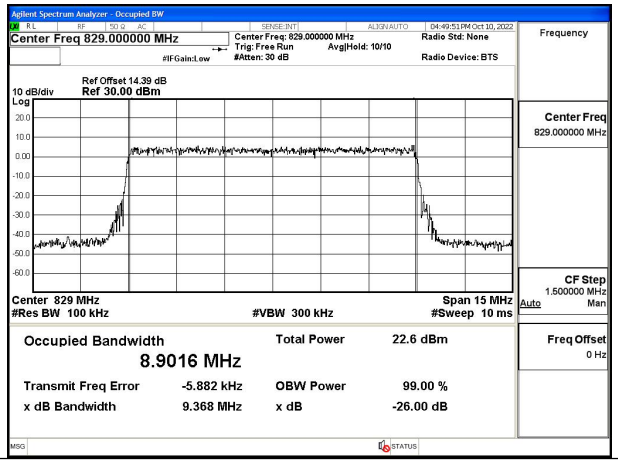

Fig.10

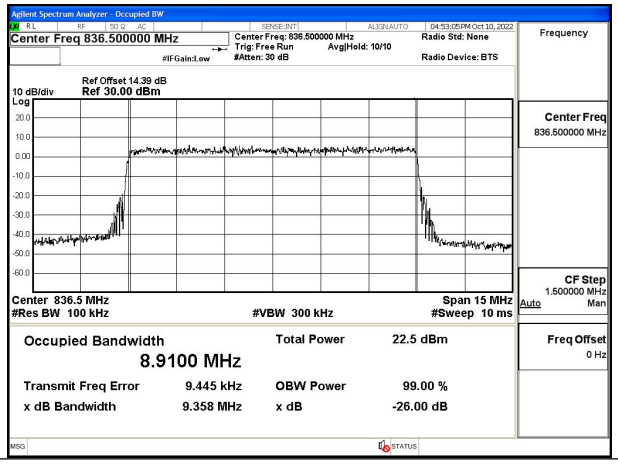

Fig.11

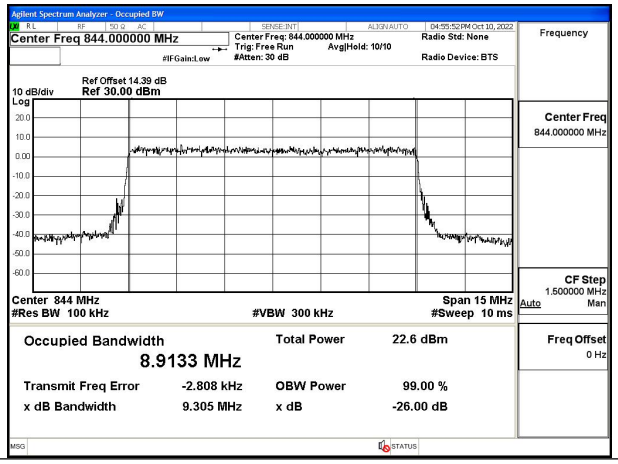

Fig.12

Test Mode: 16QAM

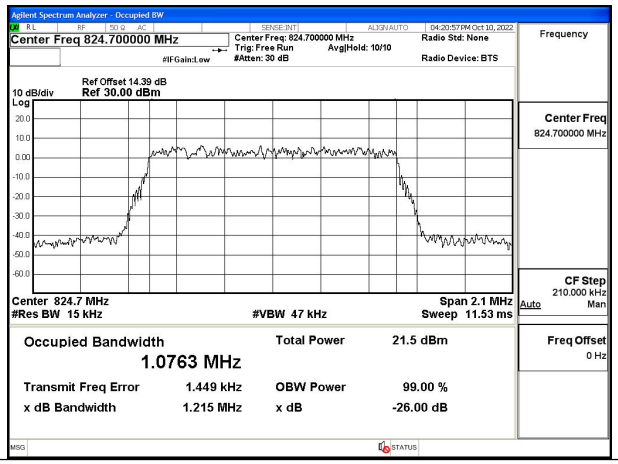

Fig.13

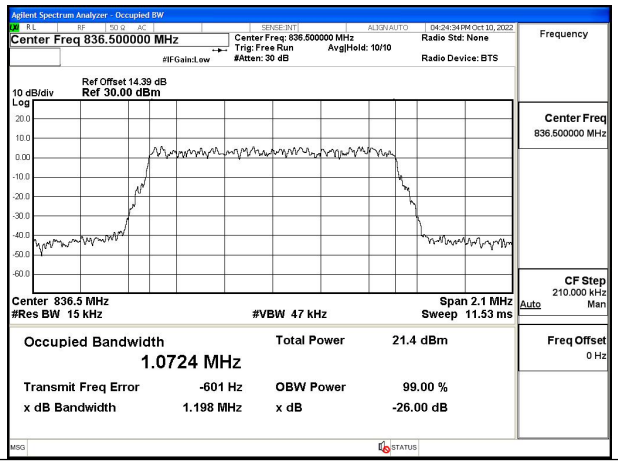

Fig.14

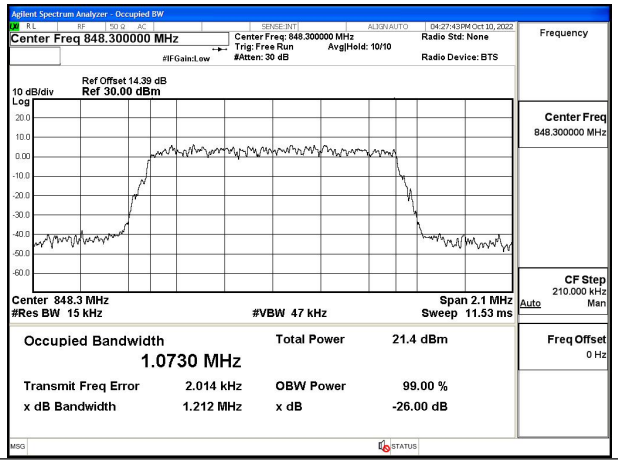

Fig.15

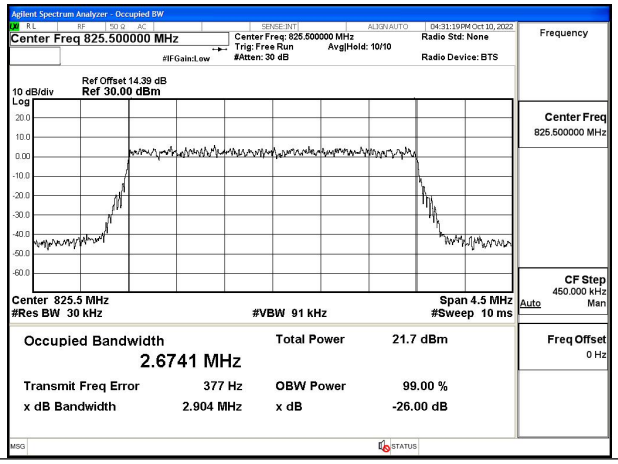

Fig.16

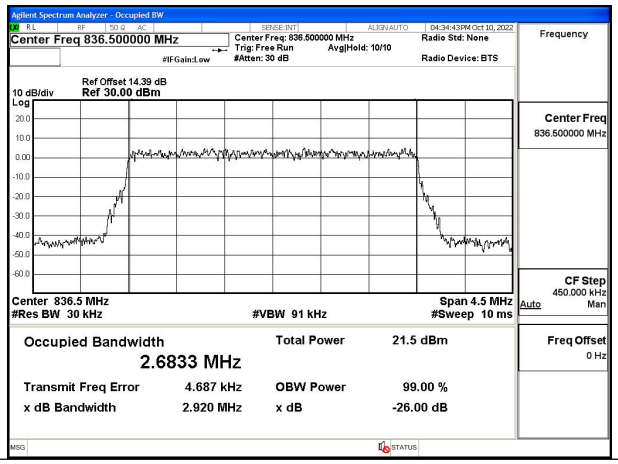

Fig.17

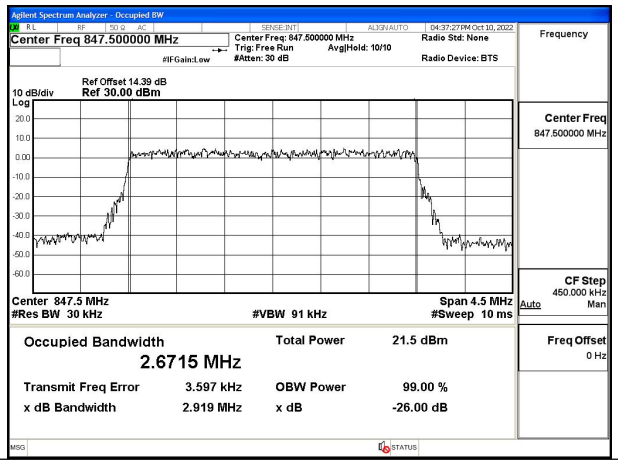

Fig.18

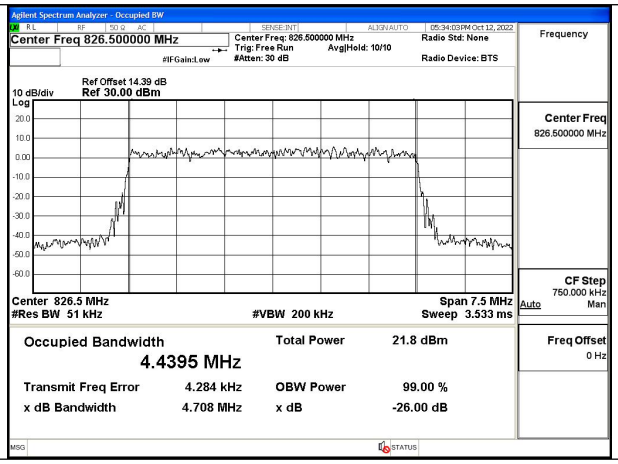

Fig.19

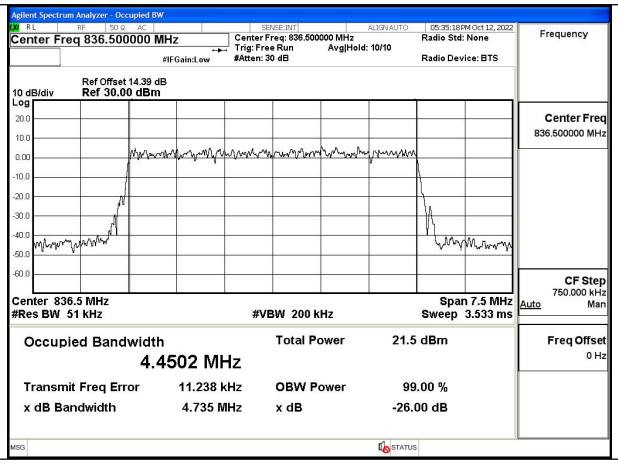

Fig.20

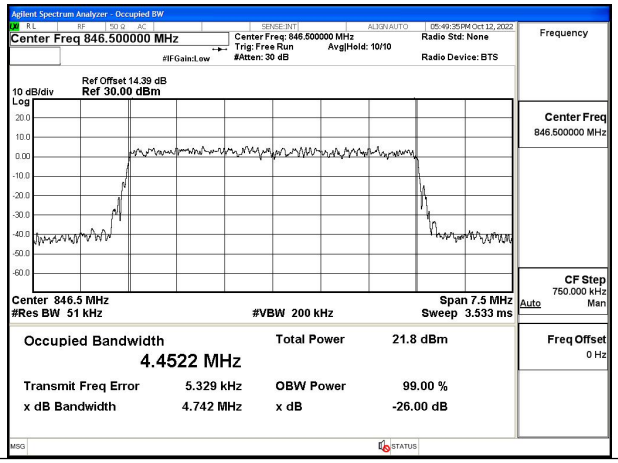

Fig.21

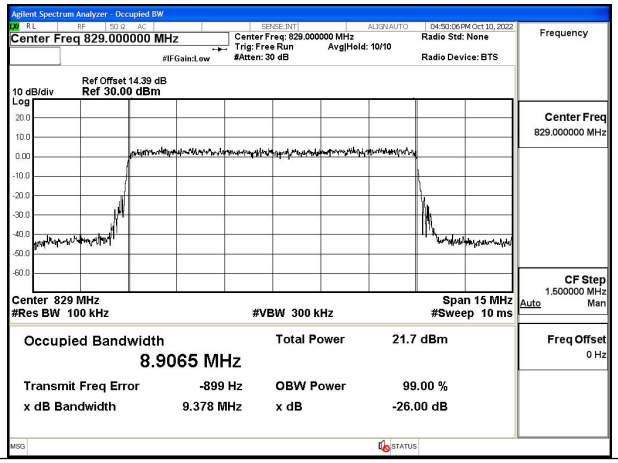

Fig.22

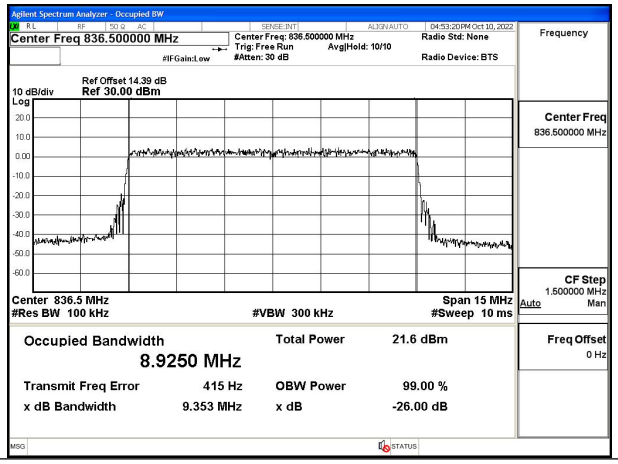

Fig.23

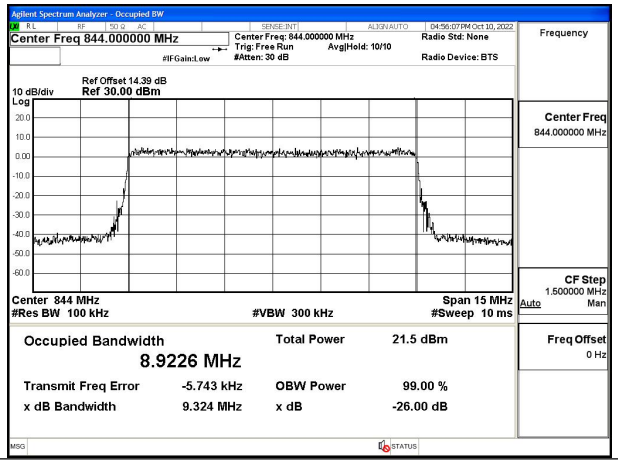

Fig.24

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.224	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.225	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.215	Fig.3
5	QPSK	825.5	20415	3	15	0	2.919	Fig.4
5	QPSK	836.5	20525	3	15	0	2.917	Fig.5
5	QPSK	847.5	20635	3	15	0	2.877	Fig.6
5	QPSK	826.5	20425	5	25	0	4.756	Fig.7
5	QPSK	836.5	20525	5	25	0	4.718	Fig.8
5	QPSK	846.5	20625	5	25	0	4.712	Fig.9
5	QPSK	829	20450	10	50	0	9.368	Fig.10
5	QPSK	836.5	20525	10	50	0	9.358	Fig.11
5	QPSK	844	20600	10	50	0	9.305	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.215	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.198	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.212	Fig.15
5	16QAM	825.5	20415	3	15	0	2.904	Fig.16
5	16QAM	836.5	20525	3	15	0	2.920	Fig.17
5	16QAM	847.5	20635	3	15	0	2.919	Fig.18
5	16QAM	826.5	20425	5	25	0	4.708	Fig.19
5	16QAM	836.5	20525	5	25	0	4.735	Fig.20
5	16QAM	846.5	20625	5	25	0	4.742	Fig.21
5	16QAM	829	20450	10	50	0	9.378	Fig.22
5	16QAM	836.5	20525	10	50	0	9.353	Fig.23
5	16QAM	844	20600	10	50	0	9.324	Fig.24

Test Mode: QPSK

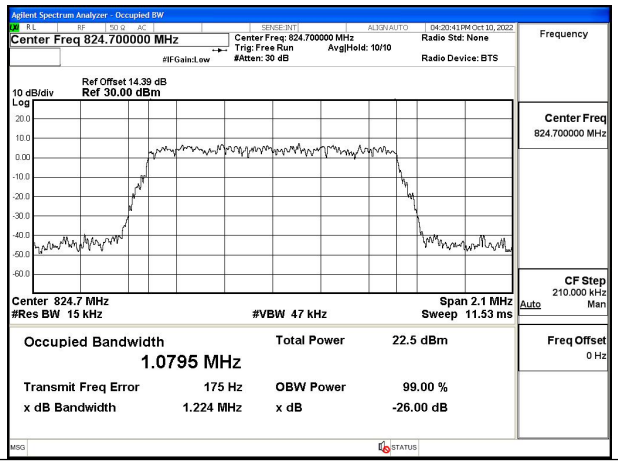

Fig.1

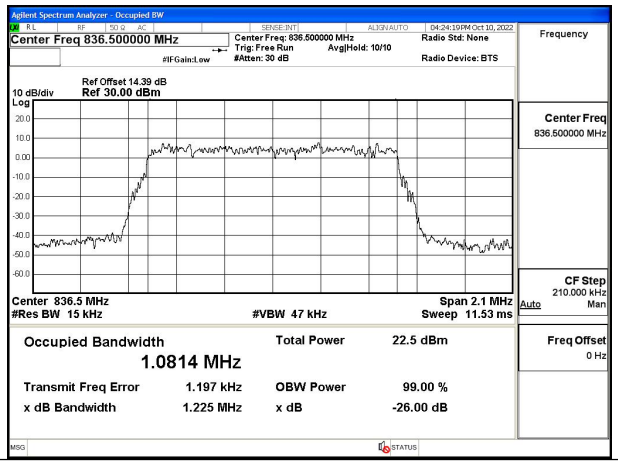

Fig.2

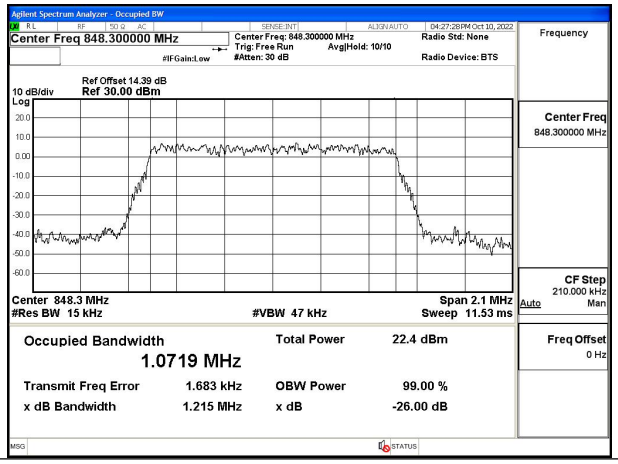

Fig.3

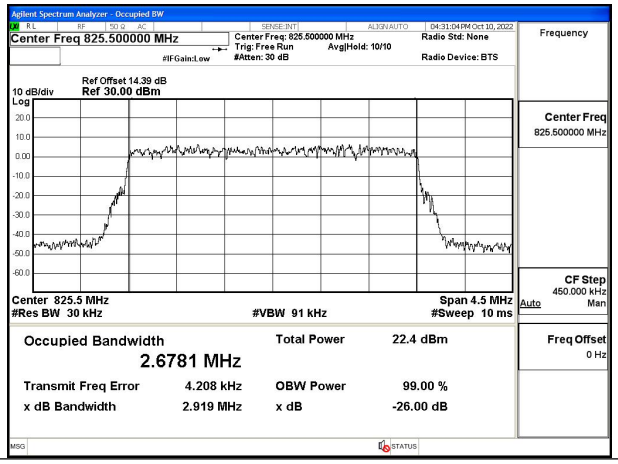

Fig.4

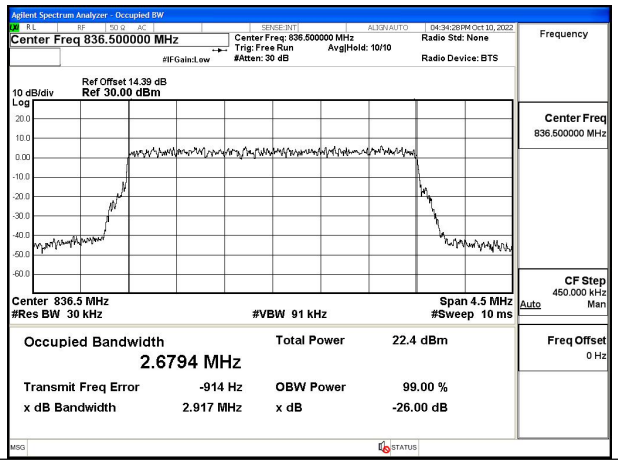

Fig.5

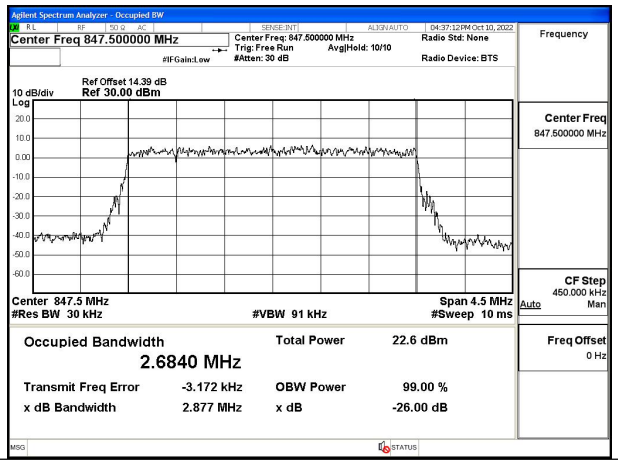

Fig.6

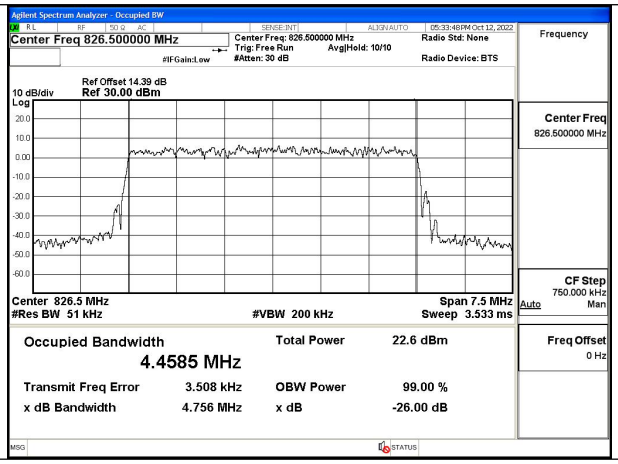

Fig.7

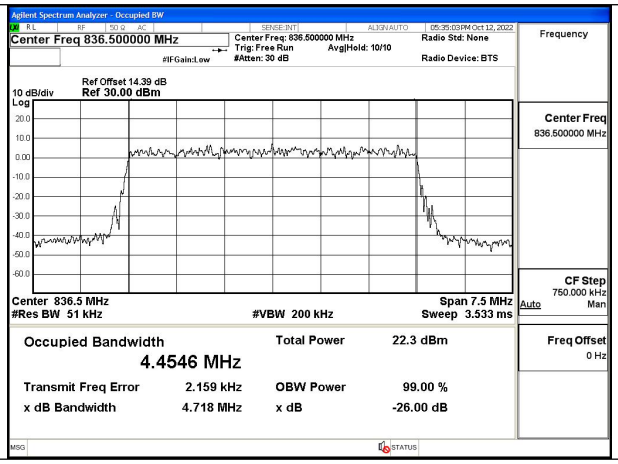

Fig.8

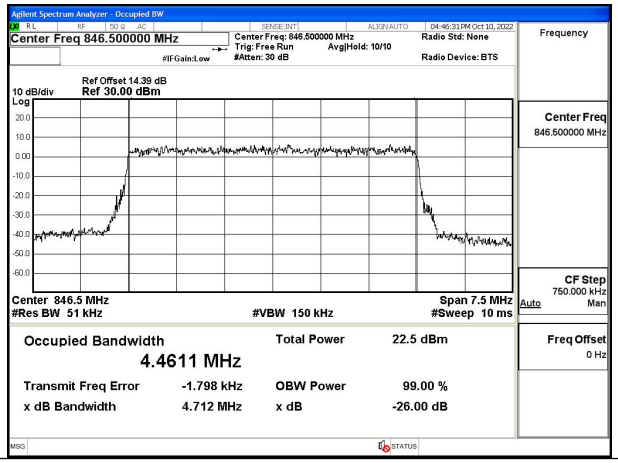

Fig.9

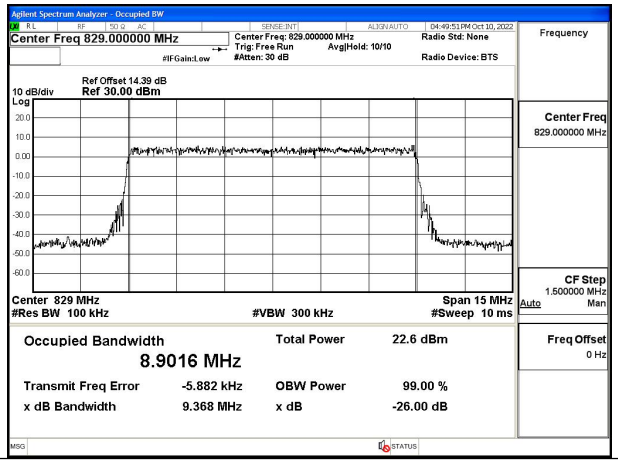

Fig.10

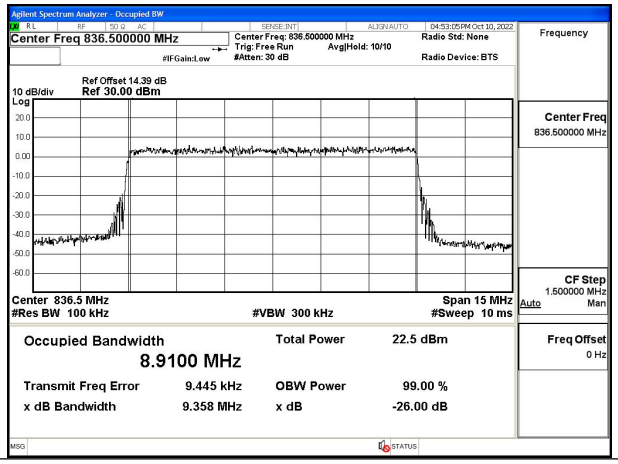

Fig.11

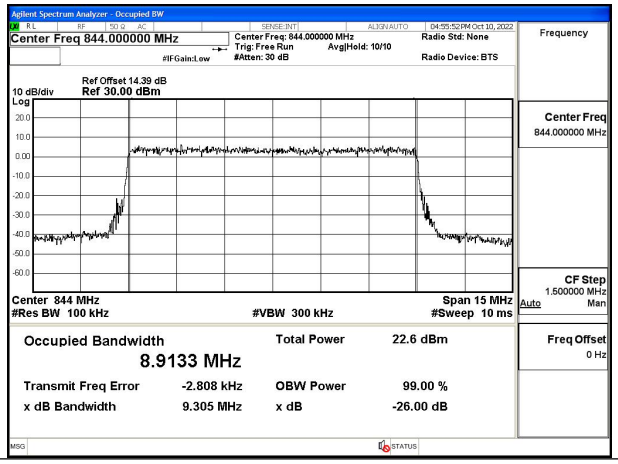

Fig.12

Test Mode: 16QAM

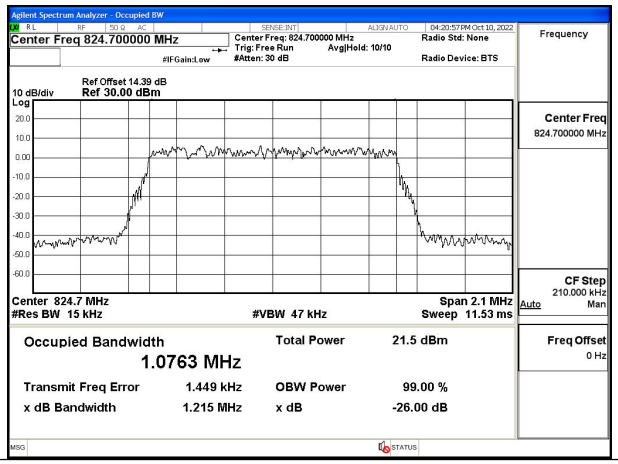

Fig.13

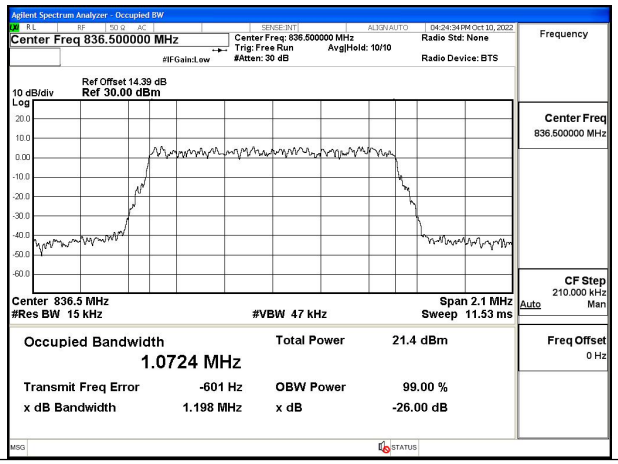

Fig.14

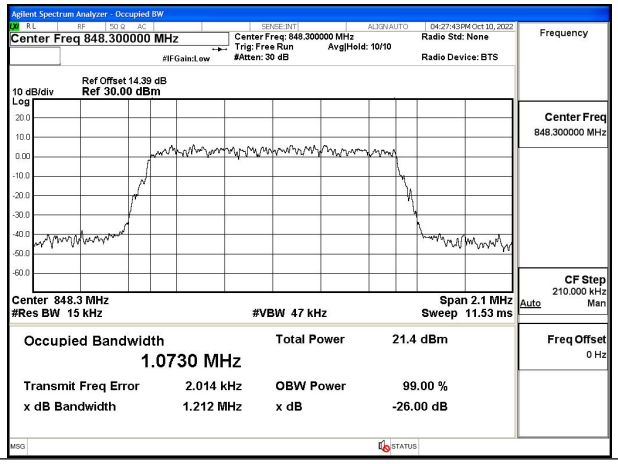

Fig.15

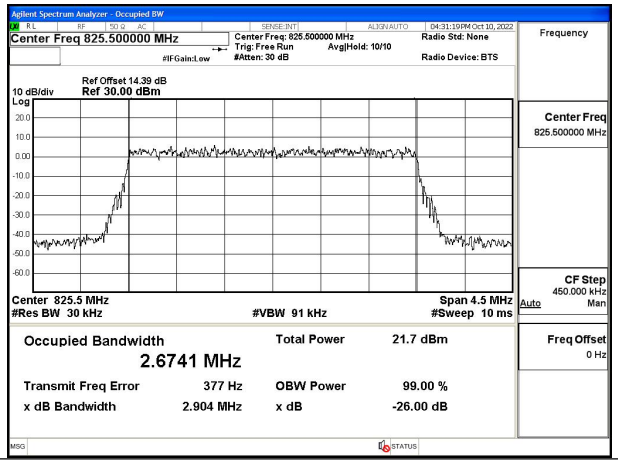

Fig.16

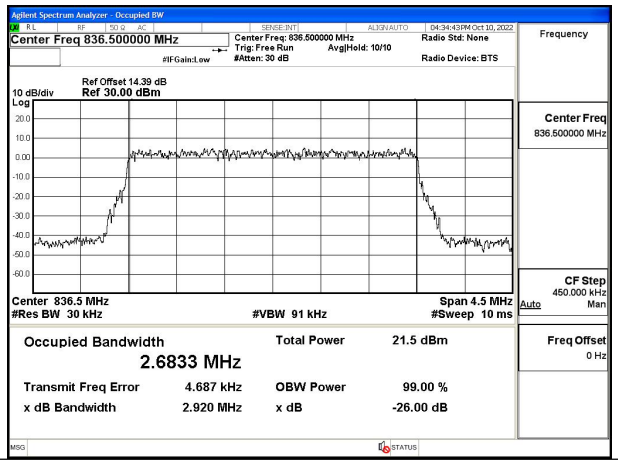

Fig.17

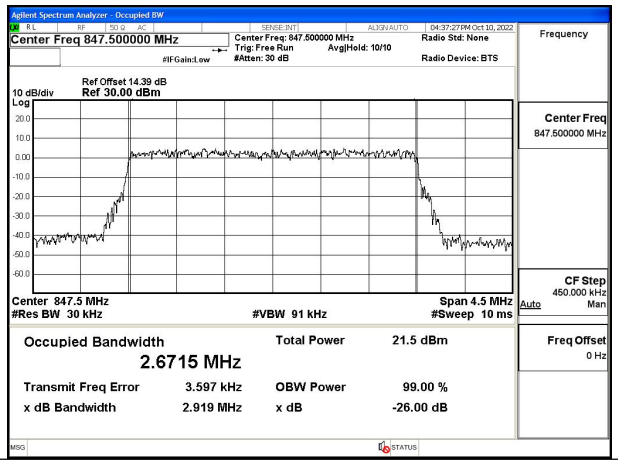

Fig.18